From the INTERNATIONAL SEARCHING AUTHORITY

To: DAVID L. FEIGENBAUM FISH & RICHARDSON P.C. P.O. BOX 1022 MINNEAPOLIS, MN 55440	PCT NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1)				
	Date of mailing (day/month/year)				
Applicant's or agent's file reference 12144-030WO1	FOR FURTHER ACTION See paragraphs 1 and 4 below				
International application No. PCT/US06/47963	International filing date (day/month/year) 15 December 2006 (15.12.2006)				
Applicant AIRVANA, INC.					
 The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): 					
When? The time limit for filing such amendments i search report.	s normally two months from the date of transmittal of the international				
Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 338.82.70.					
For more detailed instructions, see the notes on the	accompanying sheet.				
_ ::	2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.				
3. With regard to the protest against payment of (an) add	itional fee(s) under Rule 40.2, the applicant is notified that:				
request to forward the texts of both the protest and	the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.				
4. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.					
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.					
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.					
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.					
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.					
Name and mailing address of the ISA/ US	Authorized officer of				
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450	JOSE DEES HOLL S. LAND				
Alexandria, Virginia 22313-1450	Telephone No. 571-272-1569				

From the INTERNATIONAL SEARCHING AUTHORITY				
To: DAVID L. FEIGENBAUM	PCT			
FISH & RICHARDSON P.C. P.O. BOX 1022 MINNEAPOLIS, MN 55440	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION			
	(PCT Rule 44.1)			
	Date of mailing (day/month/year) 26 SEP 2008			
Applicant's or agent's file reference 12144-030WO1	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/US06/47963	International filing date (day/month/year) 15 December 2006 (15.12.2006)			
Applicant	()			
AIRVANA, INC.				
The applicant is hereby notified that the international sea Authority have been established and are transmitted here	arch report and the written opinion of the International Searching ewith.			
Filing of amendments and statement under Article 19 The applicant is entitled, if he so wishes, to amend the c				
When? The time limit for filing such amendments i search report.	is normally two months from the date of transmittal of the international			
Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 338.82.70.				
For more detailed instructions, see the notes on the	accompanying sheet.			
	rch report will be established and that the declaration under the International Searching Authority are transmitted herewith.			
3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:				
the protest together with the decision thereon has be request to forward the texts of both the protest and	een transmitted to the International Bureau together with the applicant's the decision thereon to the designated Offices.			
no decision has been made yet on the protest; the a	pplicant will be notified as soon as a decision is made.			
4. Reminders				
Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of				
the technical preparations for international publication. The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.				
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.				
In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.				
See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.				
Name and mailing address of the ISA/ US	Authorized officer / AB			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450	JOSE DEES HAMS Juffe			
[1 elephone No. 5/1-2/2-1369				
Facsimile No. (571) 273-3201 Form PCT/ISA/220 (January 2004)	(See notes on accompanying sheet			

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 12144-030WO1	FOR FURTHER see Form PCT/ISA/220 ACTION as well as, where applicable, item 5 below.					
International application No.	International filing date (day/month/year) (Earliest) Priority Date (day/month/year)					
PCT/US06/47963	15 December 2006 (15.12.2006)	16 December 2005 (16.12.2005)				
Applicant AIRVANA, INC.	1 175					
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of						
	, according to Rule 38.2(b), by this Authority					
may, within one month from the date of mailing of this international search report, submit comments to this Authority.						
6. With regard to the drawings,						
a. the figure of the drawings to be published with the abstract is Figure No. 2 as suggested by the applicant.						
	as suggested by the applicant. as selected by this Authority, because the applicant failed to suggest a figure.					
	as selected by this Authority, because the approach tance to suggest a figure. as selected by this Authority, because this figure better characterizes the invention.					
b. none of the figures is to be published with the abstract.						

Form PCT/ISA/210 (first sheet) (April 2007)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US06/47963

A. CLAS	SSIFICATION OF SUBJECT MATTER				
IPC: H04Q 7/24(2006.01)					
USPC:	370/338				
According to	International Patent Classification (IPC) or to both na	ational clas	sification and IPC		
B. FIEL	DS SEARCHED				
Minimum do	cumentation searched (classification system followed	by classific	cation symbols)		
U.S. : 3	70/338; 445/444,436,446,449,517,524,450,451,452,4	155,512,44	0		
	on searched other than minimum documentation to the	extent tha	t such documents are included i	in the fields searched	
NONE					
Electronic do	ta base consulted during the international search (nam	e of data h	ase and where practicable sea	rch terms used)	
NONE	ta base consumed during the international scarcii (hain	c or data o	ase and, where practicable, sea	ich terms useu/	
	UMENTS CONSIDERED TO BE RELEVANT			T	
Category *	Citation of document, with indication, where a			Relevant to claim No.	
X	US 2002/0102976 A1 (NEWBURY et al.) 01 Augus	st 2002 (01	.08.2002), see entire	1-48	
A,E	document. US 7,251,491 B2 (THA) 31 July 2007 (31.07.2007), see entire document. 1-48				
A,E	US 7,162,247 B2 (BABA et al.) 09 January 2007 (09.01.2007), see entire document. 1-48				
A,P	A,P US 7,072,663 B2 (RAMOS et al.) 04 July 2006 (04.07.2006), see entire document. 1-48				
:					
				j	
Further	documents are listed in the continuation of Box C.		See patent family annex.		
* S	pecial categories of cited documents:	"T"	later document published after the inte date and not in conflict with the applic		
	defining the general state of the art which is not considered to be lar relevance		principle or theory underlying the inve		
		"X"	document of particular relevance; the considered novel or cannot be considered.		
	plication or patent published on or after the international filing date		when the document is taken alone	ered to involve an inventive step	
establish (which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y"	document of particular relevance; the		
specified)			considered to involve an inventive ste combined with one or more other such		
"O" document	referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in th	ie art	
"P" document published prior to the international filing date but later than the priority date claimed			document member of the same patent	family	
Date of the actual completion of the international search			Date of mailing of the international search report		
24 September 2008 (24.09,2008)			SEP 2008		
Traine and maring address of the 15th Ob			ed officer		
Mail Stop PCT, Attn: ISA/US Commissioner for Patents			DEES // RUM Ja	147/1/2 1	
P.O. Box 1450 Alexandria, Virginia 22313-1450 Telephone No. 571-272-1569				00	
Facsimile No. (571) 273-3201					

From the INTERNATIONAL SEARCHIN	NG AUTHORITY	,		
To: DAVID L. FEIGENBAUM FISH & RICHARDSON P.C. P.O. BOX 1022 MINNEAPOLIS, MN 55440		PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY		
			Date of mailing (day/month/year)	26 SEP 2008
Applicant's or agent's file refe	rence	-	FOR FURTHER	S ACTION See paragraph 2 below
12144-030WO1 International application No.	Intern	ational filing date	(day/month/year)	Priority date (day/month/year)
PCT/US06/47963	ł	_		
International Patent Classificat		cember 2006 (15. national classifica		16 December 2005 (16.12.2005)
IPC: H04Q 7/24 (2006.01 USPC: 370/338 Applicant)			
AIRVANA, INC.				
1. This opinion contains indic	cations relating to	the following iter	ns:	
Box No. I B	asis of the opinion	n		1
Box No. II Priority				
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of unity of invention				
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI C	ertain documents	cited		
Box No. VII C	ertain defects in t	he international ap	plication	
Box No. VIII	Certain o	bservations on the	international applic	ation
2. FURTHER ACTION				
International Preliminary	Examining Authorie to be the IPEA	ority ("IPEA") ex A and the chosen:	ccept that this does	be considered to be a written opinion of the s not apply where the applicant chooses an ne International Bureau under Rule 66.1 bis(b). idered.
IPEA a written reply toge	ether, where app /220 or before the	ropriate, with ame expiration of 22	endments, before ti	PEA, the applicant is invited to submit to the he expiration of 3 months from the date of iority date, whichever expires later.
3. For further details, see not	es to Form PCT/	ISA/220.		
Name and mailing address of t Mail Stop PCT, Attn: IS Commissioner for Paten P.O. Box 1450 Alexandria, Virginia 22:	SA/US ts	Date of comple opinion 24 September 2	tion of this 008 (24.09.2008)	JOSE DEES Telephone No. 571-272-1569

Facsimile No. (571) 273-3201
Form PCT/ISA/237 (cover sheet) (April 2007)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.	
PCT/US06/47963	

Box No. I Basis of this opinion
1. With regard to the language, this opinion has been established on the basis of:
the international application in the language in which it was filed
a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2. This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this
Authority under Rule 91 (Rule 43bis.1(a)) 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been established on the basis of:
a. type of material
a sequence listing
table(s) related to the sequence listing
b. format of material
on paper
in electronic form
c. time of filing/furnishing
contained in the international application as filed.
filed together with the international application in electronic form.
furnished subsequently to this Authority for the purposes of search.
4. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additional comments:
·

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US06/47963

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1.	Statement		
	Novelty (N)	Claims NONE	YES
		Claims 1-48	NO
	Inventive step (IS)	Claims NONE	YES
		Claims 1-48	NO
	Industrial applicability (IA)	Claims 1-48	YES
		Claims NONE	NO

2. Citations and explanations:

Claims I-48 lack novelty under PCT Article 33(2) as being anticipated by Newbury et al.

Regarding claims 1, 4, 13, 15, 17, 19, 22, 24, 27, 29, 36, 38, 40, Newbury teaches a method/system comprising: enabling a radio access network to cause an access terminal in communication with the radio access network to send an update including information about a location of the access terminal (0011,0015).

Regarding claims 2, 18, 23, 28, Newbury teaches a method of claim 1, wherein the radio access network causes the access terminal to send the update by broadcasting trigger information (0015).

Regarding claims 3, 5, 16, Newbury teaches a method of claim 2, wherein the trigger information comprises a trigger that is specific to a cell of the radio access network (0011,0012).

Regarding claims 6-8, Newbury teaches a method of claim 4, wherein the query information comprises a query that is specific to a carrier frequency on which a radio node of the radio access network or a different radio access network operates (0016).

Regarding claims 9-10, 20-21,25-26, 31,33-34, 41-44, Newbury teaches a method/system wherein the information comprises a sector identifier and a pilot strength associated with a sector of a macro cell and a sector of a pico cell (0016, 0017).

Regarding claims 11, 35, Newbury teaches a method of claim 1, further comprising: using the information sent by the access terminal to determine whether a handoff between cells of the radio access network is to be performed (0016, 0018).

Regarding claim 37, Newbury teaches a method of claim 36, wherein initiating further comprises sending a TrafficChannelAssignment message (0015, 0017, 0018, 0019, 0021)1

Regarding claims 47-48, Newbury teaches a method wherein the first cell and the second cell both operate on a common/different carrier frequency (0016). In the CDMA system the frequencies are the same for all the same.

Claims 1-48 meet the criteria set out in PCT Article 33(4), because the invention is useful to the industry.

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*; Volume I/A, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, Volume I/A, paragraph 296).

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- 1. [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
 "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not act as International Searching Authority and where it has notified the International Bureau under Rule 66.1 bis(b), be considered to be a written opinion of the International Preliminary Examining Authority. If a demand is made, the applicant may submit to the International Preliminary Examining Authority a reply to the written opinion together, where appropriate, with amendments before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later (Rule 43bis.1(c)).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.